

# THE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHALL COME: Fresident, Golorado Gertified Flotato Growers' Assa., Inc.

MICCUS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBETS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE REPORTING IT, OR EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT D BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### **POTATO**

'Silverton Russet'

In Certimonn Thereof, I have hereunto set my hand and caused the seal of the Plant Inrictor Protection Office to be affixed at the City of Washington, D.C. this seventh day of February, in the year two thousand and eight.

Allast.

alm zen

Commissioner Plant Variety Protection Office Agricultural Marketing Servici U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information collection burden statement on reverse)

| (Matibaliana and Matinatan Concollor Baldi   | en statement on revers   |                    |                            |  |                |  |
|--|--|--------------------|----------------------------|--|----------------|--|
| 1 NAME OF OWNER President  |  | *****              |                            | 2. TEMPORARY DESIGNA<br>EXPERIMENTAL NAME                | TION OR        | 3. VARIETY NAME                                    |
| <u>Colorado Certified Pot</u>  | ··-  | Assn.,             | Inc.                       | AC83064-6  |                | Silverton Russet                                   |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, a  | ind ZIP Code, and Country)   |                    |                            | 5. TELEPHONE (include ar                                 | ea code)       | FOR OFFICIAL USE ONLY                              |
| P.O. BOX 267   |  |                    |                            | (719) 754-34   | 96             | PVPO NUMBER  |
| Monte Vista, CO 81144  |  |                    |                            | 6. FAX (include area code)                               |                | 200100102  |
| <u> </u>   |  |                    |                            | (719) 754-2  | 619            | FILING DATE  |
| <ol> <li>IF THE OWNER NAMED IS NOT A "PERSON". GIVE FO<br/>ORGANIZATION (corporation, partnership, association,</li> </ol>     |  | IF INCORPOR        | ATED, GIVE<br>CORPORATION  | 9. DATE OF INCORPORAT                                    | ION            | 02/08/01   |
| Association  |  | •                  | orado                      | April, 1996  |                | 02/00/01   |
| 10. NAME AND ADDRESS OF OWNER REPRESENTATIVE   | E(S) TO SERVE IN THIS APP  | LICATION. (F       | irst person listed will re |  |                | FILING AND EXAMINATION                             |
|  |  |                    |                            |  |                | FEES:  |
| Dr. Preston Stanley  |  |                    |                            |  |                | R , 2 / 2 /  |
| President, Colorado Certified  | Potato Growers' A  | ssn. Inc           | 1<br>1                     |  |                | E DATE 02/08/0                                     |
| P.O. BOX 267   |  | ,                  | ` <br> -                   |  |                | V CERTIFICATION FEE:                               |
| Monte Vista, CO 81144  |  |                    | ·                          |  |                | SD:<br>S   |
|  |  |                    | LMC Sep                    | 114,2007   |                | DATE   |
| 11. TELEPHONE (Include area code) 12. FAX (Include area code)  | lude area code)  | 13. E-M            | AIL .                      |  | 14. CROP       | KIND (Common Name)                                 |
| (719) 754-3496 (719)   | 754-2619   | slvct              | r@coop.ext                 | .colostate.ed  | u I            | rish Potato  |
| 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT  | SUBMITTED (Follow instruct   | tions on           | 19 DOES THE OIL            | MAIER COCCUTY THAT COCC                                  | NE T #01/40    | UETV DE DOUD AG A GUAGO GE                         |
| reverse)   | •  |                    | CERTIFIED SI               |  |                | IETY BE SOLD AS A CLASS OF<br>iety Protection Act) |
| a. Exhibit A. Origin and Breeding History of the V.  b. Exhibit B. Statement of Distinctness                                   | ariety   | -                  |                            | (If "yes", answer items 20<br>nd 21 below)               |                | NO (If "no," go to item 22)                        |
| c. Exhibit C. Objective Description of Variety   |  |                    |                            | MER SPECIFY THAT SEED O                                  |                | YES D NO   |
| d. Exhibit D. Additional Description of the Variety  | (Optional)   |                    | IF YES, WHICH              |  | П              | EGISTERED CERTIFIED                                |
| e. Exhibit E. Statement of the Basis of the Owner:   | s Ownership  |                    | 21 DOSC THE ON             | NER SPECIFY THAT THE CL                                  | 400E0 DE       |  |
| f. Vouctver Sample (2,500 viable untreated seeds verification that tissue culture will be depositied                           | or, for tuber propagated varies<br>and maintained in an approve  | ties,<br>ed public |                            | NUMBER OF GENERATION                                     |                | YES NO   |
| repository)  | A Committee of the Comm |                    | IF YES, SPECIF             |  |                |  |
| <ol> <li>Filing and Examination Fee (\$2,450), made paya<br/>States" (Mail to the Plant Variety Protection Office</li> </ol>   | able to "Treasurer of the Unite<br>ce)   | ed                 | NUMBER 1, 2, 3             | B, etc. FOUNDATI   |                | REGISTERED CERTIFIED                               |
| 22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATE  | EDIAL VOD A LIVERIO DOCCIO   | 14050              |                            |  |                |  |
| FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRAN<br>OTHER COUNTRIES?   | NSFERRED, OR USED IN TH  | EU.S.OR            |                            | Y OR ANY COMPONENT OF '<br>SHT (PLANT BREEDER'S RIG      |                | Y PROTECTED BY INTELLECTUAL<br>(NT)?               |
| XX <sub>YES</sub>  |  |                    | YES                        | •  | N(             | <b>)</b>   |
| IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALIFOR EACH COUNTRY AND THE CIRCUMSTANCES. (PA                                     | E, DISPOSITION, TRANSFER<br>ease use space indicated on i  | R, OR USE          |                            | OUNTRY, DATE OF FILING OI<br>IMBER. (Please use space in |                |  |
| 24. The owners declare that a viable sample of having and all  |  |                    | nd will be replenished     | upon request in accordance w                             | th such requi  | ations as may be applicable, or                    |
| The undersinged owner(x) is/orn) the green of this annual to   |  | THE REAL PERSON    | A THE COLSCIOU OF THE OF   | sruikale.  |                |  |
| and is entitled to protection under the provisions of Section 4  Owner(s) is(are) informed that false representation herein ca | TE OF BIOL ROLL VINICIA I TOLCO  | MI ALL             |                            |  |                |  |
| SIGNATURE OF OWNER   |  |                    | SIGNATURE OF OW            | NED  |                |  |
| (May ) /   |  | ĺ                  |                            |  |                |  |
| NAME (Please print or type)  |  |                    | NAME (Please print of      | or type!   |                |  |
| Charles Higgins  |  | }                  | q. roose pink t            |  |                |  |
| CAPACITY OR TITLE  | DATE   |                    | CAPACITY OR TITLE          | ·  |                | DATE   |
| President CCPGA, Inc.  | 12/22/00   |                    |                            | <del>-</del>   |                | DATE   |
| S&T-470 (2-99) designed by the Plant Variety Protection Office with  | WordPerfect 6,0a, Replaces   | 5 STD-470 (6-9     | 98) which is obsolete.     | (See reverse for instruc                                 | tions and info | rmation collection burden statement,               |

#### INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that if will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

> Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability, and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;

(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and

- (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.) Tissue-cultured plantlets, and tuber seed stocks of this selection were pre-released to local seed growers for research and evaluation purposes under an agreement regarding experimental A copy of this agreement is attached at Appendix 1. potato selections.
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

VOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's epresentative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or issignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 7.175(h) of the Regulations and Rules of Practice.)

o avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, luilding 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and 

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of the universal programs of the program of the programs of the programs of the programs of the programs of the program of the program of the program of the programs of the program of the program of the program of the programs of the program of the progr equal constraints. Tersons will usabates who require alternative means for communication of program information (braile, large print, audiciape, etc.) should contact use source and constraints of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDO). USDA is equal opportunity employer.

T-470 (6-96) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (03-96) which is obsolete.



# Appendix 1.

Potato Certification Service San Luis Valley Research Center 0249 East Road 9 North Center, Colorado 81125 (719) 754-3496 FAX: (719) 754-2619

Crop Year:

Nº

229

| Agricultural Experiment Statevaluation purposes only. If official release and accept such or its representatives liable for I also understand that I may representative. I further under under the federal Plant Variety commercially. No right or lice | ion (CSU-AES) potato breeding in the understand that experiment additional risks that may be as a any losses incurred as a result mot provide these potatoes to a restand that any of these selection. Protection Act or other mechanisms to control seed stocks of the | ng and selection pro-<br>mental selections are<br>associated with such po-<br>of production and/o<br>anyone else without<br>ons may be released a<br>hisms which may requese potatoes is gran | ogram and may be used for research of in the process of being evaluated prior to otatoes. I agree not to hold the University of disposition of these potatoes.  approval of CSU-AES or its designated as a cultivar, and may be legally protected quire royalty payments before being grown ted to me by this agreement. Information d with the CSU-AES when requested. |
|---|---|---|---|
| I hereby acknowledge that I a   | m receiving the following expe  | rimental potatoes:  |   |
| Grower:*  |   | Receiver:   |   |
| *Approval for grower sale of s selections requires the return Potato Certification Service.   |   |   |   |
| Lot Number  | Selection   |   | Quantity (cwt/minitubers/plantlets)   |
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
| Receiver Signature:   |   | D   | ate:  |
| Address:  | 1100  | Teleph  | one:  |
| ·   |   | I   | Fax:  |
| . · • • • • • • • • • • • • • • • • • •   | **  | E-n   | nail;   |

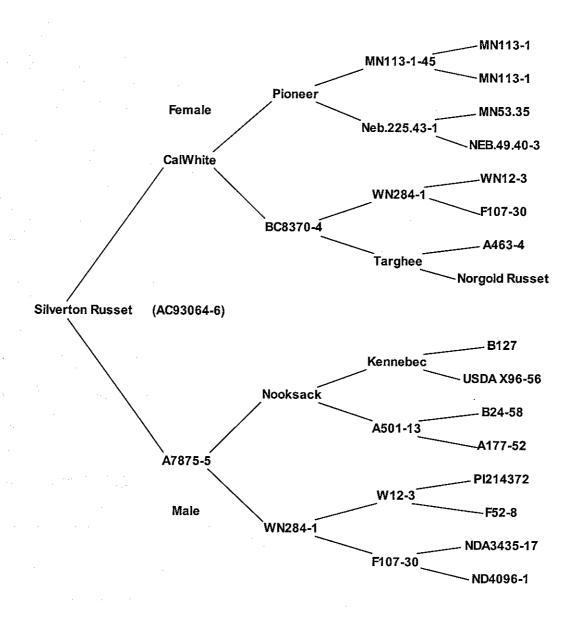
NOTICE TO RECEIVERS OF EXPERIMENTAL POTATO SELECTIONS

Please return White and Goldenrod copies to Potato Certification Service, Attn: Dr. Robert D. Davidson at the letterhead address; Yellow copy to Buyer, Pink to Receiver. Please call if you have any questions.

## Origin and Breeding History of the Variety

#### 1. Pedigree:

**Silverton Russet**, tested under pedigree number AC83064-6, was selected in 1985 at the San Luis Valley Research Center-Colorado State University, Center Colorado. It resulted from a cross of CalWhite (A76147-2) and A7875-5 made by the USDA-ARS at the University of Idaho Research and Extension Center, Aberdeen, Idaho in 1983 under the direction of Dr. J. J. Pavek. Pioneer and Targhee are in the parentage on the maternal side. Paternal ancestry includes Nooksack. **Silverton Russet** is a full-sib to Keystone Russet (AC83064-1).



#### Exhibit A (continued)

## Origin and Breeding History of the Variety

#### 2. Selection and Multiplication:

Refer to Table 1 for an outline of the potato breeding, selection, and multiplication scheme for **Silverton Russet**.

Selection and early testing was done by Dr. David G. Holm, San Luis Valley Research Center-Colorado State University, Center, Colorado. Colorado State University personnel conducting cultural management trials and disease evaluations/observations were Dr. Asunta L. Thompson and Robert D. Davidson, respectively.

Primary criteria used in selecting **Silverton Russet** were high yield potential, attractive tuber type, and resistance to internal and external grade defects such as hollow heart, second growth, growth cracks, blackspot bruise, and shatter bruise.

**Silverton Russet** was evaluated in the Western Regional Trials in 1993-1995. These trials were conducted in several locations around the Western United States as part of WERA027 - Potato Variety Development.

Multiplication of **Silverton Russet** tubers for initial selection and research trials and subsequent seed increase was via vegetative means using tubers and/or tissue-cultured disease tested seed stocks.

### 3. Statement of Uniformity and Stability:

Silverton Russet has been observed for more than 15 years of field seed increase and/or tissueculture production. No variants have been observed during this time indicating that **Silverton Russet** is uniform and stable.

### **Exhibit A (continued)**

Table 1. Potato breeding, selection, and multiplication scheme for Silverton Russet.

Year Comments

- 1 Select parents for crossing and true seed production in the greenhouse at Aberdeen, Idaho.
- 2 Produce seedling tubers from true seed in the greenhouse at Aberdeen, Idaho.
- 3 70,000-80,000 seedling tubers planted in the field as single hills. Several thousand tubers are obtained from other breeding programs. Initial selection of this material takes place at harvest. First cycle of field selection at the San Luis Valley Research Center.
- 4 Twelve-hills of each single-hill selection are planted. Second cycle of field selection.
- 5 Preliminary Selections 1 (P1). Third cycle of field selection (48 plant tuber-unit seed increase). Initial evaluations for chipping qualities (chip color after various storage regimes and specific ravity) are conducted this year and subsequently.
- 6 Preliminary Selections 2 (P2). Fourth cycle of field selection (96 plant tuber-unit seed increase). Initial evaluations to characterize selections for blackspot bruise potential, storage weight loss, dormancy, and enzymatic browning. Initial evaluations for french fry potential (french fry color and specific gravity) are conducted this year and subsequently. Evaluations for chipping qualities are continued.
- Intermediate Selections. Fifth cycle of field selection. Initial data collected on yield, grade, and growth characteristics. Plant a 144 plant tuber-unit seed increase and a 2 rep x 25 plants intermediate yield trial (IYT).
- 8-9, 14+ Advanced Selections: Includes selections that have advanced from the IYT. Additionally selections are included that have graduated from the Southwest Regional and Western Regional Trials. The advanced yield trials for reds, specialty types, and chippers are planted with entries in the Western Regional Red, Specialty and Chip Trials. Selections are in the 6th-7th and 12+ cycles of field selection. All advanced yield trials (AYT) have 4 reps x 25 plants. Sixth- and seventh- year field selections respectively have a 400/1,600 plant tuber-unit seed increase.

Selections in the sixth cycle of selection are indexed for viruses and cleanup/micropropagation is initiated. Testing for ring rot and PLRV reaction is also initiated at this stage and continues as needed. Selections in the 7th cycle of field selection are entered into cultural management trials and postharvest disease reaction (dry rot and soft rot) evaluations.

- All 8th year selections have a 1/2 acre tuber-unit seed increase planted. These selections are entered in the Southwestern Regional Trials (4 locations CO, TX, two in CA). Cultural management trials and postharvest disease reaction evaluations continue as needed.
- All 9th year or older selections generally have a 1 acre or greater seed increase. These selections are entered in the Western Regional Trials (4 trials): main (russets and long whites), red, specialty, and chip. The Western Regional Committee (WERA027) directs these trials at 10+ locations in the Western United States each year. Cultural management trials and postharvest disease reaction evaluations continue as needed.
  - 11+ Grower/industry evaluations. The Colorado Potato Breeding and Selection Project relies on the cooperation of several growers, shippers, and processors to evaluate advanced selections for adaptability and marketability.
  - 14+ Release as a named cultivar.

#### Exhibit B

# **Statement of Distinctness**

Based on overall morphology, **Silverton Russet** is most similar to Russet Norkotah. **Silverton Russet** most clearly differs from Russet Norkotah in the following traits:

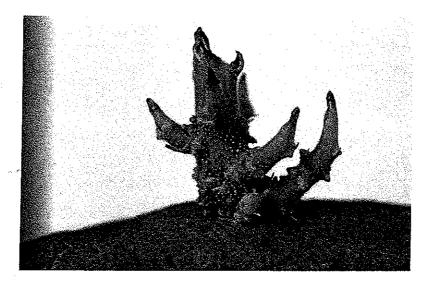
| Trait   | Silverton Russet    | Russet Norkotah     | Evidence               |
|---|---------------------|---------------------|------------------------|
| Light sprout base (intensity of anthocyanin coloration) | Medium-Strong       | Medium-Weak         | Photograph<br>attached |
| Light sprout tip (habit)                                | Closed              | Intermediate        | Photograph attached    |
| Anther color chart value                                | 9B                  | 15A                 | RHS Color Chart        |
| Stigma color chart value                                | 143B                | 137D                | RHS Color Chart        |
| Eye number/tuber  | 10.6 +/- 1.9 (n=65) | 15.1 +/- 1.9 (n=65) | Statistics attached    |

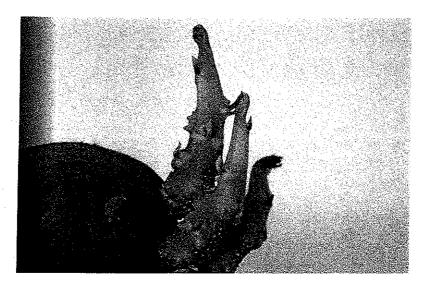
# Exhibit B (continued)

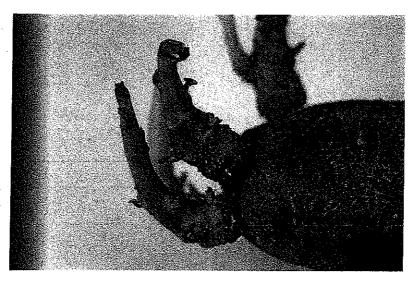
# Statement of Distinctness

| Eye Number/Tuber Analysis | er An | alysis       | //         |    |    |    |    |          |    |    |          | -  |          | -  | -  |        |      |
|---------------------------|-------|--------------|------------|----|----|----|----|----------|----|----|----------|----|----------|----|----|--------|------|
|                           |       |              |            |    |    |    |    |          | -  |    |          |    |          |    |    | -      |      |
| Silverton Russet          | Ξ     | 11           | 10         | 14 | တ  | 6  | Ξ  | 10       | 12 | 12 | 10       | 10 | <u> </u> |    | 12 | Number | 65   |
|                           | 9     | 12           | 6          | 10 | 11 | 10 | 7  | 7        | 14 | 10 | 10       | 7  | 13       | 1  | 13 | Mean   | 10.6 |
|                           | 12    | 14           | 11         | 10 | 10 | တ  | 7  | 1        | 6  | 12 | 1        | 1  |          |    | 11 | SD     | 1.9  |
|                           | 12    | <del>.</del> | 9          | 12 | 8  | 6  | ဝ  | 7        | 12 | 9  | 10       | 19 | 10       | 13 | 6  |        |      |
|                           | Ξ     | 11           | 6          | 7  | 10 |    |    | -        |    |    | -        |    |          | -  |    |        |      |
|                           |       |              |            |    |    |    |    |          |    |    |          |    | _        |    |    |        |      |
|                           |       |              |            |    |    |    |    |          |    |    | <u> </u> |    |          |    |    |        |      |
|                           |       |              |            |    |    |    |    |          |    |    |          |    |          |    |    |        |      |
| Russet Norkotah           | 16    | 16           | 13         | 14 | 14 | 15 | 15 | 4        | 14 |    | 13       | 15 | 16       | 14 | 14 | Number | 65   |
|                           | 16    | 14           | 13         | 14 | 13 | 14 | 16 | 14       | 17 | 16 | 18       | 16 |          |    | 6  | Mean   | 15.1 |
|                           | 19    | 17           | 16         | 15 | 16 | 5  | 4  | <u>8</u> | 16 |    | 17       | 18 | 74       | 14 | 14 | SD     | 1.9  |
|                           | 15    | 12           | 16         | 15 | 18 | 4  | 15 | 16       | 14 |    | 15       | 17 |          | 15 | 15 |        |      |
|                           | 17    | 18           | 15         | 13 | 10 |    |    |          |    |    |          |    |          |    |    |        |      |
|                           |       |              |            |    |    |    |    |          |    |    |          |    |          |    |    |        |      |
|                           | 16    | 16           | <u>1</u> 3 | 14 | 14 | 15 | 15 | 14       | 4  |    | 13       | 15 | 16       | 4  | 14 |        |      |
|                           | 16    | 14           | 13         | 14 | 13 | 14 | 16 | 14       | 17 |    | 18       | 16 |          | 13 | 6  |        |      |
|                           | 16    | 17           | 16         | 15 | 16 | 15 | 14 | 38       | 16 | 16 | 17       | 18 | 21       | 14 | 14 |        |      |
|                           | 15    | 12           | 16         | 12 | 9  | 14 | 12 | 16       | 14 |    | 15       | 17 |          | 15 | 15 |        |      |
|                           | 17    | 18           | 15         | 13 | 9  |    |    |          |    | -  |          |    |          |    |    |        |      |

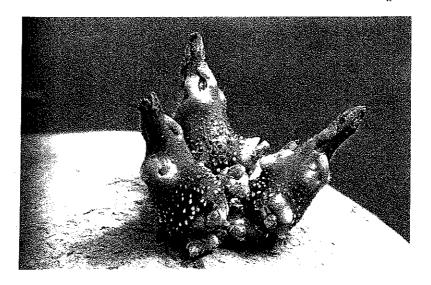
Top - Silverton Russet; Middle - Russet Burbank; Bottom - Russet Norkotah

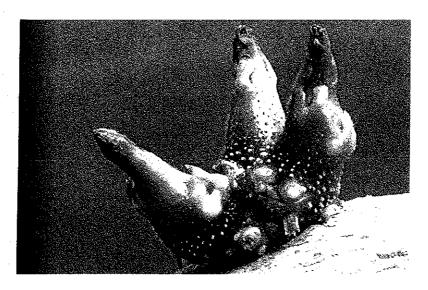


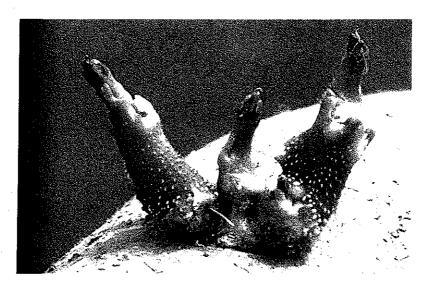




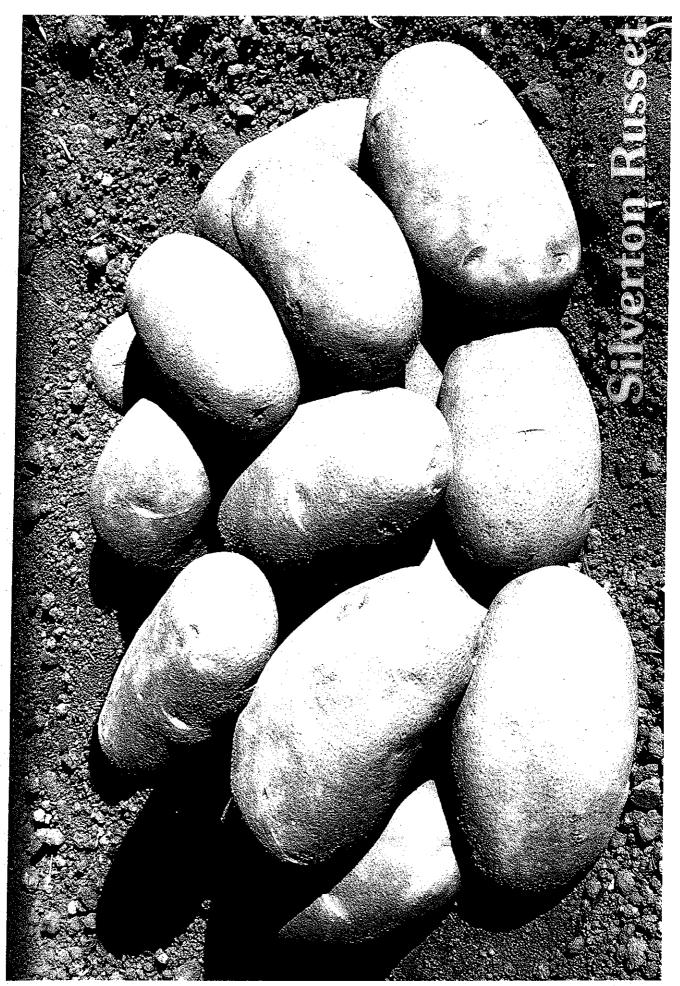
# #200100102

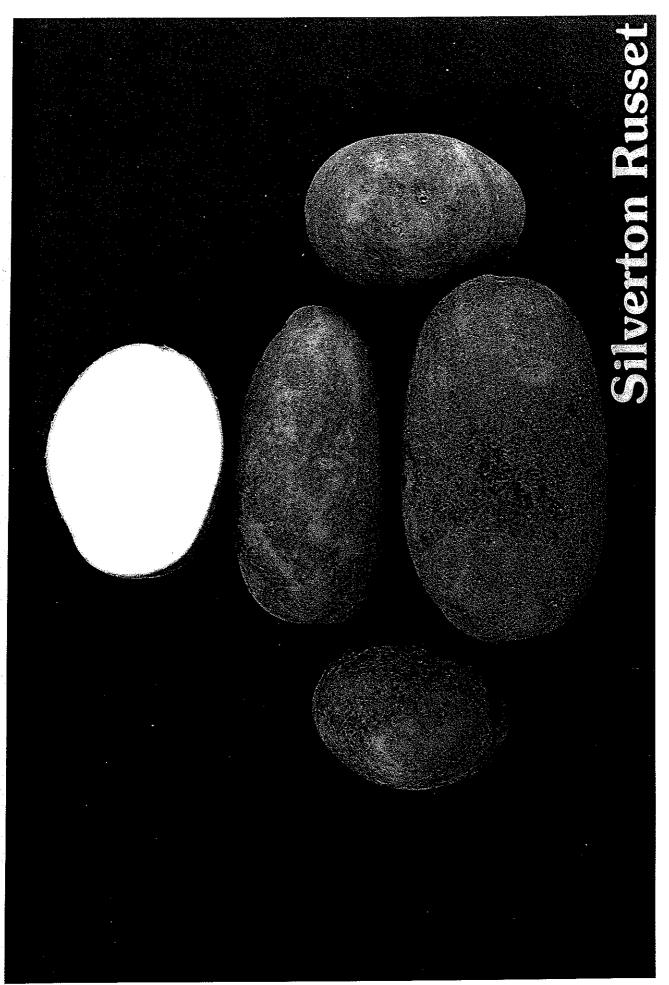






**Silverton Russet - Light Sprouts** 





| President, Colorado Growers' Assn., Inc.                                    | Certified Potato A   | MPORARY OR EXPERIMENTAL DESIGNAT                      | rion               | Silvert                         |      | Russet   | 1      |      |            |   |
|---|--|---|--------------------|---------------------------------|------|----------|--------|------|------------|---|
| ADDRESS (Street and No. or RD No., C. 0249 East Road 9 Nor Center, CO 81125 | ity, State, Zip Code, and Country)                               |   |                    | FOR OFFICIA<br>PVPO NUMB<br># 2 | ER   | only 0 1 | 0      | 0    | 1          | ( |
| REFERENCE VARIETIES: Ent  | er the reference variety name in                                 | n the appropriate box.                                |                    | <u> </u>                        |      |          |        |      |            | _ |
| Application Variety (V)   | Reference Variety 1 (R1)   | Reference Variety 2 (R2)                              | Reference Variet   | y 3 (R3)                        | Refe | rence V  | ariety | 4 (R | R4)        |   |
| Silverton Russet  | Russet Burbank   | Russet Norkotah                                       |                    |                                 |      |          |        |      |            |   |
| PLEASE READ ALL INSTRU  1. MARKET CHARACTERISTIC                            | , <sub>1</sub> ,   |   | Trick              |                                 |      |          |        |      | <b>241</b> | _ |
| *MARKET CLASS: 1 = Yellow-flesh Table 5 = Russet Tablestock                 | estock 2 = Round-white Table<br>6 = Other                        | stock 3 = Chip-processing 4 =                         | Frozen-processing  |                                 |      |          |        |      |            |   |
| V 4/5   | R1 4/5 I   | R2   5   R3   | R4                 |                                 |      |          |        |      |            |   |
| V 3 *LIGHT SPROUT BAS   | ENERAL SHAPE Ovoid 3 = Conica 4 = E  R1 3  SE: PUBESCENCE OF TIP | Broad cylindrica 5 = Narrow cy                        | viindrical 6 = Oth | er                              |      |          |        |      |            |   |
| 1 = Absent 2 = Work  V 2.5  *LIGHT SPROUT BAS 1 = Green 2 = Red-            | R1 3.5 R   | Strong 5 = Very Strong  R3  RTION 4 = Other(describe) | R4                 |                                 |      |          |        |      |            |   |
| V 2   | R1 2 R   | 2 <sup>2</sup> R3                                     | R4                 |                                 |      |          |        |      |            |   |
| *LIGHT SPROUT BAS<br>1 = Absent 2 = We                                      | E: INTENSITY OF ANTHOCY<br>eak 3 = Medium 4 = Str                | ANIN COLORATION (IF PRESEN<br>rong 5 = Very Strong    | NT)                |                                 |      |          |        |      |            |   |
| V 3.5   | R1 2.5   | 2 2.5 R3  | R4                 |                                 |      |          |        |      |            |   |
| * LIGHT SPROUT TIP:<br>1 = Closed 2 = Int                                   | HABIT<br>termediate 3 = Open                                     |   |                    |                                 |      |          |        |      |            |   |
| V 1   | R1 2 R2  | 2 <sup>2</sup> R3                                     | R4                 |                                 |      |          |        |      |            |   |

#### 2. LIGHT SPROUT CHARACTERISTICS: (continued)

LIGHT SPROUT TIP: PUBESCENCE

1 = Absent

2 = Weak

3 = Medium

4 = Strong

5 = Very Strong

2

R13 R<sub>2</sub> 2 R3

R4

LIGHT SPROUT TIP ANTHOCYANIN COLORATION

2 = Red-violet

3 = Blue-violet

4 = Other(describe)

R11 R2 1

R3

R4

LIGHT SPROUT TIP: INTENSITY OF ANTHOCANIN COLORATION (IF PRESENT)

1 = Absent

2 = Weak

3 = Medium

4 = Strong

5 = Very Strong

**R**1

R2

R3

R4

LIGHT SPROUT ROOT INITIALS: FREQUENCY

**R**1

1 = Short

2 = Medium

3 = Long

1

R<sub>2</sub> 2.5

R3

R4

3. PLANT CHARACTERISTICS:

GROWTH HABIT: (See Figure 2)

3 = Erect (>45° with ground)

5 = Semi-erect (30-45° with ground)

7 = Spreading

R1

R2

R3

R4

TYPE:

1 = Stem (foliage open, stems clearly visible)

2 = Intermediate

3 = Leaf (Foliage closed, stems hardly visible)

R1

R2 3 R3

R4

MATURITY: Days after planting (DAP) at vine senescence

R1

**R3** 

R4

**PLANTING DATE:** 

V

**R**1

R1

1

R2

R2

R3

R4

\*REGIONAL AREA:

1 = Pacific North West (WA, OR, ID, CO, CA)

2 = North Central (ND, WI, MI, MN, OH)

1

3 = North East (ME, NY, PA, NJ, MD, MA, RI,)

4 = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL) 7 = Europe

8 = England

9 = Latin America

5 = South (LA, TX, AZ, NE) 10 = Brazil 6 = Canada 11 = Other

R3

1

R4

1 = Very Early (<100 DAP) 2 = Early (100-110 DAP) 3 = Mid-season (111-120 DAP) 4 = Late (121-130 DAP) 5 = Very Late (>130 DAP).

R1

R2

R3

R4

| 1 = /  |  | 'ANIN COLORATION:<br> eak 5 = Medium 7 =  | Strong 9 = Very Strong   | <b>3</b> .   |                   |  |
|--|--|---|--|--|-------------------|--|
| Z  | / l  | R1 1  | R2 1   | R3   | R4                |  |
| <b>STE</b> 1                                   | M WINGS: (Solbsent 3 = V   | ee Figure 3)<br>Veak 5 = Medium 7   | = Strong 9 = Very Stror  | g  |                   |  |
| V  | 7 5  | R1 3  | R2 2   | R3   | R4                |  |
| CHAI   | RACTERISTIC  | SS:   |  |  |                   |  |
| LEAI<br>1 = Y                                  | F COLOR: (O.<br>'ellowing-greer  | bserve fully developed le<br>n 2 = Olive-green 3  | eaves located on middle = = Medium Green = 4 = [   | 1/3 of plant)<br>Dark Green 5 = Grey-                  | green 6 = Other   |  |
| V  | 4  | R1 1  | R2 3   | R3   | R4                |  |
| LEAF<br>(Obs                                   | COLOR CHA  | ART VALUE: Royal Ho<br>loped leaves located on  | rticulture Society Color C<br>middle 1/3 of plant and c  | hart or Munsell Color Ch<br>ircle the appropriate colo | nart<br>or chart) |  |
| V  | 137A   | R1 137B   | R2 137B  | R3   | R4                |  |
| V  |  |   |  |  |                   |  |
| LEAF   | PUBESCEN   | CE DENSITY: Sparse 3 = Medium   | 4 = Thick 5 = Hea  | vy   |                   |  |
| LEAF   | F PUBESCENCE bsent 2 = \$  |   | 4 = Thick 5 = Hea  | vy R3  | R4                |  |
| LEAF<br>1 = A                                  | F PUBESCENCE SERVICE S | R1 CE LENGTH:   |  | R3   | R4                |  |
| LEAF   | F PUBESCENCE SERVICE S | R1 CE LENGTH:   | R2   | R3   | R4                |  |
| LEAF<br>1 = A<br>V                             | FPUBESCENG<br>bsent 2 = S  | R1  CE LENGTH: hort 3 = Medium  R1  | R2   | R3   | R4                |  |
| LEAF<br>1 = A<br>V<br>LEAF<br>1 = N            | PUBESCENG  PUBESCENG  PUBESCENG  One 2 = Si  Descriptor #1:  | R1  CE LENGTH: hort 3 = Medium  R1  | R2   | R3   | R4                |  |
| LEAF<br>1 = A<br>V<br>LEAF<br>1 = N<br>(Note   | PUBESCENG  PUBESCENG  PUBESCENG  One 2 = Si  Descriptor #1:  | R1  CE LENGTH: hort 3 = Medium  R1  5 can be used to describ.  TE: (See Figure 4)   | R2   | R3   | R4                |  |
| LEAR 1 = A  LEAR 1 = N  V (Note  * LEAR 1 = CI | F PUBESCENG bsent 2 = 3  F PUBESCENG one 2 = Si  Descriptor #1:  AF SILHOUET osed 3 = N  3   | R1  CE LENGTH: hort 3 = Medium  R1  5 can be used to describ.  TE: (See Figure 4) Medium 5 = Open  R1  5  CYANIN COLORATION   | R2  4 = Long 5 = Very Lo  R2  De the type and length of the second length of the second length of the second length lengt | R3 The glandular trichomes                             | R4 observed.)     |  |
| LEAR 1 = A  LEAR 1 = N  V (Note  * LEAR 1 = CI | PUBESCENG bsent 2 = 3  PUBESCENG one 2 = Si  Descriptor #1:  AF SILHOUET osed 3 = N  OLES ANTHO osent 3 = V  | R1  CE LENGTH: hort 3 = Medium  R1  5 can be used to describ.  TE: (See Figure 4) Medium 5 = Open  R1  5  CYANIN COLORATION   | R2  4 = Long 5 = Very Lo  R2  De the type and length of the second length of the second length of the second length lengt | R3 The glandular trichomes                             | R4 observed.)     |  |
| LEAF<br>1 = A                                  | FPUBESCENG bsent 2 = S  FPUBESCENG one 2 = S  Descriptor #1:  AF SILHOUET osed 3 = N  OLES ANTHO osent 3 = V  STIPULES SI  | R1  CE LENGTH: hort 3 = Medium  R1  5 can be used to describ.  TE: (See Figure 4) Medium 5 = Open  R1  CYANIN COLORATION Veak 5 = Medium  R1  1  ZE: (See Figure 5) | R2  4 = Long 5 = Very Lo  R2  De the type and length of the type and | R3  The glandular trichomes  R3  V Strong              | R4 observed.)     |  |

R1

R2

R3

R4

5

#### 5. LEAF CHARACTERISTICS: (continued)

| TERMINAL LEAFLET TIP SHAPE: (See Figures 6 and 8)  1 = Acute  2 = Cuspidate  3 = Acuminate  4 = Obtuse  5 = Other  |
|--|
| V 3 R1 3 R2 3 R3 R4  |
| * TERMINAL LEAFLET BASE SHAPE: (See Figure 9) 1 = Cuneate 2 = Acute 3 = Obtuse 4 = Cordate 5 = Truncate 6 = Lobed 7 = Other                                      |
| V     4     R1     4     R2     4     R3     R4  |
| TERMINAL LEAFLET MARGIN WAVINESS:  1 = Absent 2 = Slight 3 = Weak 4 = Medium 5 = Strong  |
| V 3 R1 2 R2 2 R3 R4  |
| NUMBER OF PRIMARY LEAFLET PAIRS: (See Figure 6)  |
| AVERAGE:  V 4.3 R1 4.2 R2 4.7 R3 R4  |
| RANGE:   |
| V 2 to 5 R1 3 to 5 R2 4 to 6 R3 to R4 to   |
| PRIMARY LEAFLET TIP SHAPE: (See Figures 6 and 8)  1 = Acute 2 = Cuspidate 3 = Acuminate 4 = Obtuse 5 = Other   |
| V 3 R1 3 R2 3 R3 R4  |
| PRIMARY LEAFLET SIZE:  1 = Very Small 2 = Small 3 = Medium 4 = Large 5 = Very Large  |
| V     3       R1     2       R2     3       R3     R4  |
| PRIMARY LEAFLET SHAPE: (See Figures 6 and 7)  1 = Narrowly ovate 2 = Medium ovate 3 = Broadly ovate 4 = Lanceolate 5 = Elliptical 6 = Ovate 7 = Oblong 8 = Other |
| V 5 R1 5 R2 1 R3 R4  |
| PRIMARY LEAFLET BASE SHAPE: (See Figures 6 and 9)  1 = Cuneate 2 = Acute 3 = Obtuse 4 = Cordate 5 = Truncate 6 = Lobed 7 = Other                                 |
| V 4 R1 4 R2 4 R3 R4  |
| NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS: (See Figure 6)   |
| AVERAGE:   |
| V 5 R1 6.9 R2 8.8 R3 R4  |
| RANGE:    V  |
| V 1 to 8 R1 2 to 10 R2 3 to 15 R3 to R4 to   |

|   | \GE:   |  |  |   | _  |   |   | _  |  |                               |   |  |                                       |                                     |  |  |
|---|--|--|--|---|--|---|---|--|--|-------------------------------|---|--|---------------------------------------|-------------------------------------|--|--|
| V   | 1.7  |  | R1   | 0.9   |  | R2  | 0.1   | .]   | R3   |                               |   | R4   |                                       |                                     |  |  |
| RANGE   | <br>=·   | ] [  |  | J   | _  |   |   |  |  |                               |   |  | <u> </u>                              |                                     |  |  |
|   | 0 to   | 4  | R  | 0   | to   | 3   | R2  | 0  | to 1   |                               | 23  | t  | 0                                     |                                     | R4   | to   |
| <del></del>   |  |  |  | -   |  |   | 142   |  |  |                               |   |  |                                       |                                     | 12.1   |  |
| NUMBE   | ER OF FL   | ORETS  | /INFLC   | RESCE   | NCE:   |   |   |  |  |                               |   |  |                                       |                                     |  |  |
| AVERA   | GE:  |  |  |   |  |   |   |  |  |                               |   |  |                                       |                                     |  |  |
| V   | 12.5   | ] [  | R1   | 11.2  |  | R2  | 5.3   | 7  | R3   |                               |   | R4   |                                       |                                     |  |  |
| RANGE   | .1   | Í L  |  |   | ┙  | 1.72  | 1   | J  |  |                               |   | 11.7   | <u> </u>                              |                                     |  |  |
| V   | 2 to   | 25   | R  | 1 2   | to   | 27  | R2  | 3  | to 7   |                               | 3.3   | +  | 0                                     |                                     | R4   | to   |
|   |  |  | 1 [  | <u> </u>  |  |   | ICZ   |  |  |                               |   |  | · · · · · · · · · · · · · · · · · · · |                                     | ICT  |  |
| * CORO  | LLA INN  | ER SUF   | RFACE  | COLOR   | CHAR   | RT VALUI  | Royal   | Horticu                                      | ulture Socie   | tv Color                      | Chart   | or Muns  | sell Colo                             | r Chart                             | t (Measure   | e predo                                    |
| color of  | newly ope  | en flowe   | r and c  | ircle the   | approp   | riate colo  | or chart)   |  |  |                               |   |  |                                       |                                     | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                      | р  |
| V   |  | 155C   | $\neg$   | R1  | 4D   | ,   | 7 [   | 22   | 155C   |                               | R3  | 1  |                                       |                                     | R4   |  |
|   | <u> </u>   |  | J L  | 14.   |  |   |   | 2  | •  |                               |   | <u></u>  | -                                     |                                     | 1.   |  |
| * CORO  | LLA OUT  | ER SU  | RFACE  | COLO  | R CHAI   | RT VALU   | E: Roya   | al Hortic                                    | culture Soci   | ety Colo                      | or Cha  | n<br>Or Mui  | nsell Col                             | lor Cha                             | art (Measu   | ге ргес                                    |
| color of  | newly ope  | en flowe   | rand c   | ircle the   | арргор   | riate colo  | or chart)   |  |  | ·                             |   |  |                                       |                                     | •  | •  |
| <b>X</b> 7  |  |  |  |   |  | •••   | 7 [   | _  | 1550   |                               | R3  | :  |                                       |                                     | R4   |  |
| V   | 1  | L55C   |  | R1  | 4D   |   | 1 I R   | 12   | 155C   |                               | 1 11  | , ,  |                                       |                                     |  |  |
| * CORO<br>1 = Whi<br>11 = Pur<br>Pink-Wh  | LLA INNE ite 2 = R rple-violet ite 1:3   | ER SUF<br>Red-viole<br>13 =<br>19 = Pi   | et 3 =<br>Violet-<br>nk-Whi                    | Blue-vio<br>White 1:<br>ite 3:1   | t: (Mea<br>olet 4<br>1 14<br>20 = Pi             | <ul><li>Cream</li><li>Violet-<br/>ink-White</li></ul>             | dominant 5 = Re -White 1: Halo 2  | ed-purp<br>3 15<br>11 = Re                   | of newly ope<br>le 6 = Blu<br>= Violet-Wh  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are<br>8 = Pin<br>Violet-\                          | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO<br>1 = Whi<br>11 = Pur<br>Pink-Wh<br>24 = Red<br>12 = Oth  | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-W   | ER SUF<br>Red-viole<br>13 =<br>19 = Pi<br>hite Hal   | et 3 =<br>Violet-<br>nk-Whi<br>o 25            | COLOR<br>Blue-vid<br>White 1:   | t: (Mea<br>olet 4<br>1 14<br>20 = Pi             | = Cream<br>= Violet-<br>ink-White<br>hite 1:1                     | dominant 5 = Re -White 1: Halo 2  | t color o<br>ed-purp<br>3 15                 | of newly ope<br>le 6 = Blu<br>= Violet-Whi<br>dViolet-Whi<br>t-White 1:3   | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are<br>8 = Pin<br>Violet-V<br>RedViolet<br>Diet-Whi | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO<br>1 = Whi<br>11 = Pur<br>Pink-Wh<br>24 = Rec  | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-W   | ER SUF<br>Red-viole<br>13 =<br>19 = Pi<br>hite Hal   | et 3 =<br>Violet-<br>nk-Whi                    | COLOR<br>Blue-vid<br>White 1:   | t: (Mea<br>olet 4<br>1 14<br>20 = Pi             | <ul><li>Cream</li><li>Violet-<br/>ink-White</li></ul>             | dominant 5 = Re -White 1: Halo 2  | t color o<br>ed-purp<br>3 15                 | of newly ope<br>le 6 = Blu<br>= Violet-Wh  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are<br>8 = Pin<br>Violet-\                          | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur 11 = Pur Pink-Wh 24 = Rec 12 = Oth  | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Wier  | ER SUF<br>Red-viole<br>13 =<br>19 = P<br>hite Hal  | et 3 = Violet- nk-Whi o 25                     | COLOR<br>Blue-vic<br>White 1:<br>ite 3:1<br>= BlueVi                                  | t: (Mea<br>olet 4<br>1 14<br>20 = Pi             | = Cream<br>= Violet-<br>ink-White<br>hite 1:1                     | dominant 5 = Re -White 1: Halo 2 26 = Bla                                     | t color o<br>ed-purp<br>3 15                 | of newly ope<br>le 6 = Blu<br>= Violet-Whi<br>dViolet-Whi<br>t-White 1:3   | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are<br>8 = Pin<br>Violet-V<br>RedViolet<br>Diet-Whi | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth   | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-W ner   | ER SUF<br>Red-viole<br>13 =<br>19 = P<br>hite Hal  | et 3 = Violet- nk-Whi o 25  R1                 | COLOR Blue-vic White 1: te 3:1 = Blue-Vi 4  | t: (Mez<br>olet 4<br>1 14<br>20 = Pi<br>iolet-Wi | = Cream<br>= Violet-<br>ink-White<br>hite 1:1                     | dominant 5 = Re -White 1: Halo 2 26 = Bla                                     | t color of ded-purp 3 15 1 = RequeViole      | of newly ope<br>le 6 = Blu<br>= Violet-Whi<br>dViolet-Whi<br>t-White 1:3   | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are<br>8 = Pin<br>Violet-V<br>RedViolet<br>Diet-Whi | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  | LLA INNI ite 2 = R rple-violet ite 1:3 dViolet-Winer 4 LA SHAP rotate                                  | ER SUF<br>Red-viole<br>13 =<br>19 = P<br>hite Hal  | et 3 = Violet- nk-Whi o 25  R1  e Figure ate 3 | COLOR<br>Blue-vic<br>White 1:<br>ite 3:1<br>= BlueVi                                  | t: (Mez<br>olet 4<br>1 14<br>20 = Pi<br>iolet-Wi | = Cream<br>= Violet-<br>ink-White<br>hite 1:1<br>R2<br>4 = Sei    | dominant<br>5 = Re<br>-White 1:<br>Halo 2<br>26 = Blu                         | t color of ded-purp 3 15 1 = RequeViole      | of newly opele 6 = Blu = Violet-White 1:3  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are 8 = Pin Violet-Violet-Whi                       | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth   | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-W ner 4   | ER SUF<br>Red-viole<br>13 =<br>19 = P<br>hite Hal  | et 3 = Violet- nk-Whi o 25  R1                 | COLOR Blue-vic White 1: te 3:1 = Blue-Vi 4  | t: (Mez<br>olet 4<br>1 14<br>20 = Pi<br>iolet-Wi | = Cream<br>= Violet-<br>ink-White<br>hite 1:1                     | dominant<br>5 = Re<br>-White 1:<br>Halo 2<br>26 = Blu                         | t color of ded-purp 3 15 1 = RequeViole      | of newly opele 6 = Blu = Violet-White 1:3  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are<br>8 = Pin<br>Violet-V<br>RedViolet<br>Diet-Whi | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  V  COROLI 1 = Very   | LLA INNI ite 2 = R rple-violet ite 1:3 dViolet-Winer 4 LA SHAP rotate                                  | ER SUF<br>Red-viole<br>13 =<br>19 = P<br>hite Hal<br>E: (See<br>2 = Rot  | et 3 = Violet- Nk-Whi o 25  R1  e Figure ate 3 | COLOR<br>Blue-vic<br>White 1:<br>ite 3:1<br>= BlueVi<br>4<br>= 10)<br>= Penta         | t: (Mez<br>olet 4<br>1 14<br>20 = Pi<br>iolet-Wi | = Cream<br>= Violet-<br>ink-White<br>hite 1:1<br>R2<br>4 = Sei    | dominant<br>5 = Re<br>-White 1:<br>Halo 2<br>26 = Blu                         | t color of ded-purp 3 15 1 = RequeViole      | of newly opele 6 = Blu = Violet-White 1:3  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are 8 = Pin Violet-Violet-Whi                       | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3                             | ER SUF<br>Red-viole<br>13 =<br>19 = Pi<br>hite Hal   | et 3 = Violet- No 25  R1  RISTIC               | COLOR Blue-vic White 1: tte 3:1 = Blue-Vi 4 = 10) = Penta 3                           | t: (Meablet 4<br>1 14<br>20 = Pi<br>iolet-Wi     | = Cream<br>= Violet-<br>ink-White<br>hite 1:1<br>R2<br>4 = Sei    | dominant<br>5 = Re<br>-White 1:<br>Halo 2<br>26 = Blu                         | t color of ded-purp 3 15 1 = RequeViole      | of newly opele 6 = Blu = Violet-White 1:3  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are 8 = Pin Violet-Violet-Whi                       | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI                   | ER SUF<br>Red-viole<br>13 =<br>19 = Pi<br>hite Hal   | et 3 = Violet- No 25  R1  RISTIC COLOR         | COLOR Blue-vic White 1: tte 3:1 = Blue-Vi 4 = 10) = Penta 3                           | t: (Meablet 4<br>1 14<br>20 = Pi<br>iolet-Wi     | = Cream<br>= Violet-<br>ink-White<br>hite 1:1<br>R2<br>4 = Sei    | dominant<br>5 = Re<br>-White 1:<br>Halo 2<br>26 = Blu                         | t color (ed-purp 3 15 t1 = ReueViole)        | of newly opele 6 = Blu = Violet-White 1:3  R3  R3  Stellate  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are 8 = Pin Violet-Violet-Whi                       | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLI 1 = Very  V  RESCEN CALYX A 1 = Abse                        | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI ANTHOCY ent 3 =   | ER SUFRED-VIOLET SUPERING TO SUPERING THE SU | R1  RISTIC  COLOR  5 = N                       | COLOR Blue-vic White 1: tte 3:1 = Blue-Vi 4 = 10) = Penta 3                           | t: (Meablet 4<br>1 14<br>20 = Pi<br>iolet-Wi     | = Cream = Violet- ink-White nite 1:1  R2  4 = Sei  R2             | dominant<br>5 = Re-<br>White 1:<br>Halo 2<br>26 = Blu<br>4<br>mi-stellat<br>4 | t color (ed-purp 3 15 t1 = ReueViole)        | of newly opele 6 = Blu = Violet-White 1:3  R3  R3  Stellate  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are 8 = Pin Violet-1 RedViolet Pk4                  | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI                   | ER SUFRED-VIOLET SUPERING TO SUPERING THE SU | et 3 = Violet- No 25  R1  RISTIC COLOR         | COLOR Blue-vic White 1: tte 3:1 = Blue-Vi 4 = 10) = Penta 3                           | t: (Meablet 4<br>1 14<br>20 = Pi<br>iolet-Wi     | = Cream<br>= Violet-<br>ink-White<br>nite 1:1<br>R2<br>4 = Sei    | dominant<br>5 = Re-<br>White 1:<br>Halo 2<br>26 = Blu<br>4                    | t color (ed-purp 3 15 t1 = ReueViole)        | of newly opele 6 = Blu = Violet-White 1:3  R3  R3  Stellate  | e 7 =<br>nite 3:1<br>ite 1:1  | er, if flo<br>Pink<br>16 =<br>22 = F            | wers are 8 = Pin Violet-Violet-Whi                       | k-white<br>White Ha<br>t-White        | 9 = P<br>alo 17<br>1:3 2            | se use the Purple 10 7 = Pink-V 23 = RedV                    | ) = Vid<br>Vhite 1:<br>iolet-W             |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  V  RESCEN CALYX A 1 = Abse                        | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI ANTHOCY ent 3 =   | ER SUF<br>Red-viole<br>13 =<br>19 = P<br>hite Hal<br>E: (See<br>2 = Rot<br>RACTE<br>YANIN<br>Weak  | R1  RISTIC  COLOR  R1                          | COLOR Blue-vic White 1: tet 3:1 = Blue-Vic 4  | t: (Meablet 4<br>1 14<br>20 = Pri<br>iolet-Wi    | = Cream = Violet- ink-White nite 1:1  R2  4 = Set  R2  Strong     | dominant<br>5 = Re-<br>White 1:<br>Halo 2<br>26 = Blu<br>4<br>mi-stellat<br>4 | t color (ed-purp 3 15 11 = ReueViole)  e 5 = | of newly operated by the second secon | e 7 = nite 3:1 ite 1:1 27 = E | er, if flo<br>Pink<br>16 =<br>22 = F<br>BlueVid | wers are 8 = Pin e Violet-Noted Piet-Whi R4              | k-white<br>White Habt-White<br>te 3:1 | 9 = F<br>alo 17<br>1:3 2<br>28 = Bl | se use the<br>Purple 1/7 = Pink-V<br>23 = RedV<br>IueViolet- | 0 = Vic<br>Vhite 1:<br>'iolet-W<br>White H |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  V  RESCEN CALYX A 1 = Abse                        | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI ANTHOCY ent 3 =   | ER SUF<br>Red-viole<br>13 =<br>19 = Pi<br>hite Hal<br>E: (See<br>2 = Rot<br>PANIN<br>Weak  | R1  RISTIC  COLOR  5 = N                       | COLOR Blue-vic White 1: tet 3:1  = Blue-Vi  4  = 10) = Penta  3  S:  RATION Medium  2 | t: (Meablet 4<br>1 14<br>20 = Pricolet-Wi        | = Cream = Violet- ink-White nite 1:1  R2  4 = Set  R2  Strong     | dominant<br>5 = Re-<br>White 1:<br>Halo 2<br>26 = Blu<br>4<br>mi-stellat<br>4 | t color (ed-purp 3 15 11 = ReueViole)  e 5 = | of newly opele 6 = Blu = Violet-White 1:3  R3  R3  Stellate  | e 7 = nite 3:1 ite 1:1 27 = E | er, if flo<br>Pink<br>16 =<br>22 = F<br>BlueVid | wers are 8 = Pin e Violet-Noted Piet-Whi R4              | k-white<br>White Habt-White<br>te 3:1 | 9 = F<br>alo 17<br>1:3 2<br>28 = Bl | se use the<br>Purple 1/7 = Pink-V<br>23 = RedV<br>IueViolet- | 0 = Vic<br>Vhite 1:<br>'iolet-W<br>White H |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  V  RESCEN CALYX A 1 = Abse  V  ANTHER expanded    | LLA INNI ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI ANTHOC ent 3 =  5 | ER SUFRed-viole 13 = 19 = P hite Hal  E: (See 2 = Rot  PANIN Weak  CHAR le the a   | R1  RISTIC  COLOR  5 = N  R1                   | COLOR Blue-vic White 1: tet 3:1  = Blue-Vi  4  = 10) = Penta  3  S:  RATION Medium 2  | t: (Meablet 4<br>1 14<br>20 = Pricolet-Wi        | = Cream = Violet- ink-White nite 1:1  R2  4 = Set  R2  Strong  R2 | dominant 5 = Re 5 = Re Halo 2 26 = Blu  4  mi-stellat 4  9 = Very 1           | t color (ed-purp 3 15 11 = ReueViole)  e 5 = | of newly operation of newly operation in the second operation in the second of newly operation in the second of newly operation in the second of newly operation in the second operation in the second of newly operation in the second operation in the  | e 7 = nite 3:1 ite 1:1 27 = E | er, if flo<br>Pink<br>16 =<br>22 = F<br>BlueVid | wers are 8 = Pin violet-N RedViolet Piet-Whi             | k-white<br>White Habt-White<br>te 3:1 | 9 = F<br>alo 17<br>1:3 2<br>28 = Bl | se use the<br>Purple 1/7 = Pink-V<br>23 = RedV<br>IueViolet- | 0 = Vic<br>Vhite 1:<br>'iolet-W<br>White H |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  V  RESCEN CALYX A 1 = Abse                        | LLA INNE ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI ANTHOCY ent 3 = 5 | ER SUFRed-viole 13 = 19 = P hite Hal  E: (See 2 = Rot  PANIN Weak  CHAR le the a   | R1  RISTIC  COLOR  5 = N                       | COLOR Blue-vic White 1: tet 3:1  = Blue-Vi  4  = 10) = Penta  3  S:  RATION Medium  2 | t: (Meablet 4<br>1 14<br>20 = Pricolet-Wi        | = Cream = Violet- ink-White nite 1:1  R2  4 = Set  R2  Strong     | dominant<br>5 = Re-<br>White 1:<br>Halo 2<br>26 = Blu<br>4<br>mi-stellat<br>4 | t color (ed-purp 3 15 11 = ReueViole)  e 5 = | of newly operated by the second secon | e 7 = nite 3:1 ite 1:1 27 = E | er, if flo<br>Pink<br>16 =<br>22 = F<br>BlueVid | wers are 8 = Pin e Violet-Noted Piet-Whi R4              | k-white<br>White Habt-White<br>te 3:1 | 9 = F<br>alo 17<br>1:3 2<br>28 = Bl | se use the<br>Purple 1/7 = Pink-V<br>23 = RedV<br>IueViolet- | 0 = Vic<br>Vhite 1:<br>'iolet-W<br>White H |
| * CORO 1 = Whi 11 = Pur Pink-Wh 24 = Rec 12 = Oth  COROLL 1 = Very  V  RESCEN CALYX A 1 = Abse  V  ANTHER expanded  V | LLA INNI ite 2 = R rple-violet ite 1:3 dViolet-Winer  4  LA SHAP rotate  3  ICE CHAI ANTHOC ent 3 =  5 | ER SUFRED-VIOLET 19 = Phite Hall E: (See 2 = Rot  PANIN Weak  CHAR le the a  | R1  RISTIC COLOF 5 = N  R1                     | COLOR Blue-vic White 1: tite 3:1  = Blue-Vi  4  = 10) = Penta  3  S:  RATION Medium 2 | t: (Meablet 4<br>1 14<br>20 = Pricolet-Wi        | = Cream = Violet- ink-White nite 1:1  R2  4 = Set  R2  Strong  R2 | dominant 5 = Re 5 = Re Halo 2 26 = Blu  4  mi-stellat 4  9 = Very 1           | t color (ed-purp 3 15 11 = ReueViole)  e 5 = | of newly operation of newly operation in the second operation in the second of newly operation in the second of newly operation in the second operation i | e 7 = nite 3:1 ite 1:1 27 = E | er, if flo<br>Pink<br>16 =<br>22 = F<br>BlueVid | wers are 8 = Pin violet-N RedViolet Piet-Whi             | k-white<br>White Habt-White<br>te 3:1 | 9 = F<br>alo 17<br>1:3 2<br>28 = Bl | se use the<br>Purple 1/7 = Pink-V<br>23 = RedV<br>IueViolet- | 0 = Vic<br>Vhite 1:<br>'iolet-W<br>White H |

|  | #200100102 <sub>Ext</sub>  |
|--|--|
| ORESCENCE CHARACTERISTICS: (continued)   | EXI  |
| POLLEN PRODUCTION:   |  |
| 1 = None 3 = Some 5 = Abundant   |  |
| V         5         R1         1         R2         3         R3   | R4   |
| STIGMA SHAPE: (See Figure 12) 1 = Capitate 2 = Clavate 3 Bi-lobed  |  |
| V 1 R1 1 R2 1 R3   | R4   |
| STIGMA COLOR CHART VALUE Royal Horticulture Society Color Chart or Mu  | nsel Color Chart (Circle the appropriate color chart)  |
|  |  |
| V 143B R1 144A R2 1371   | K3   K4  |
| BERRY PRODUCTION: (Under field conditions)  1 = Absent 3 = Low 5 = Moderate 7 = Heavy 9 = Very Heavy   |  |
| V 6 R1 1 R2 1 R3   | R4   |
|  |  |
| R CHARACTERISTICS:  * PREDOMINANT SKIN COLOR:  1 = White 2 = Light Yellow 3 = Yellow 4 = Buff 5 = Tan 6 = Brow   | vn 7=Pink 8=Red 9=Pumlish-red  |
| * PREDOMINANT SKIN COLOR:  | 8 = Red $9 = Purplish-red$   |
| * PREDOMINANT SKIN COLOR: 1 = White 2 = Light Yellow 3 = Yellow 4 = Buff 5 = Tan 6 = Brow 10 = Purple 11 = Dark purple-black 12 = Other $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$   |  |
| * PREDOMINANT SKIN COLOR:  1 = White 2 = Light Yellow 3 = Yellow 4 = Buff 5 = Tan 6 = Brov  10 = Purple 11 = Dark purple-black 12 = Other  |  |
| * PREDOMINANT SKIN COLOR: 1 = White 2 = Light Yellow 3 = Yellow 4 = Buff 5 = Tan 6 = Brow 10 = Purple 11 = Dark purple-black 12 = Other $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$   |  |
| * PREDOMINANT SKIN COLOR:  1 = White    2 = Light Yellow    3 = Yellow    4 = Buff    5 = Tan    6 = Brow    10 = Purple    11 = Dark purple-black    12 = Other  V    6    R1    6    R2    6    R3  PREDOMINANT SKIN COLOR CHART VALUE   Royal Horticulture Society Color  | R4   |
| * PREDOMINANT SKIN COLOR:  1 = White  2 = Light Yellow  3 = Yellow  4 = Buff  5 = Tan  6 = Brow  10 = Purple  11 = Dark purple-black  12 = Other  V  6   | R4   |
| * PREDOMINANT SKIN COLOR:  1 = White    2 = Light Yellow    3 = Yellow    4 = Buff    5 = Tan    6 = Brow    10 = Purple    11 = Dark purple-black    12 = Other  V    6    R1    6    R2    6    R3  PREDOMINANT SKIN COLOR CHART VALUE Royal Horticulture Society Color    V    199B    R1    199B    R2    199B  SECONDARY SKIN COLOR:  1 = Absent    2 = Present (please describe) | R4  Chartor Munsell Color Chart (Circle the appropriate color R3  R4   |
| * PREDOMINANT SKIN COLOR:  1 = White    2 = Light Yellow    3 = Yellow    4 = Buff    5 = Tan    6 = Brow    10 = Purple    11 = Dark purple-black    12 = Other  V    6    R1    6    R2    6    R3  PREDOMINANT SKIN COLOR CHART VALUE Royal Horticulture Society Color    V    199B    R1    199B    R2    199B  SECONDARY SKIN COLOR:  1 = Absent    2 = Present (please describe) | R4  R3  R3  R4  R4  R4   |
| * PREDOMINANT SKIN COLOR:  1 = White   | R4  R3  R3  R4  R3  R4  Chart or Munsell Color Chart (Circle the appropriate color)  |
| * PREDOMINANT SKIN COLOR:  1 = White   | R4  R3  R3  R4  R4  Chart or Munsell Color Chart (Circle the appropriate color)  |
| * PREDOMINANT SKIN COLOR:  1 = White   | R4  R3  R3  R4  R3  R4  Chart or Munsell Color Chart (Circle the appropriate color)  R3  R4  R4  Chart or Munsell Color Chart (Circle the appropriate color)  R3  R4                         |
| * PREDOMINANT SKIN COLOR:  1 = White   | R4  R3  R3  R4  R4  R3  R4  Chart or Munsell Color Chart (Circle the appropriate color)  R3  R4  Chart or Munsell Color Chart (Circle the appropriate color)  R3  R4  6 = Stippled 7 = Other |
| * PREDOMINANT SKIN COLOR:  1 = White   | R4  R3  R3  R4  R3  R4  Chart or Munsell Color Chart (Circle the appropriate color)  R3  R4  R4  Chart or Munsell Color Chart (Circle the appropriate color)  R3  R4                         |

**R**1

3 = Netled

4 = Russetted

R2

5 = Heavily russetted

R3

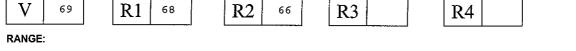
6 = Other

R4

SKIN TEXTURE: 1 = Smooth 2 = Rough (flaky)

#### 7. TUBER CHARACTERISTICS: (continued)

\* TUBER SHAPE: (See Figure 14) 4 = Oblong 1 = Compressed 2 = Round 3 = Oval 5 = Long 6 = Other 5 R15 R<sub>2</sub> 5 R3 R4 **TUBER THICKNESS:** 1 = Round 2 = Medium thick 3 = Slightly flattened 4 = Flattened 5 = Other R1 3 R2 R3 R4 TUBER LENGTH (mm): AVERAGE: 107 **R2** R1 113 111 **R3 R4** RANGE: to 129 82 R1 R2 to 138 93 128 R3 R4 to to to STANDARD DEVIATION: V 10 10 **R**1 R2 8 R3 R4 AVERAGE WEIGHT OF SAMPLE TAKEN: V 226 R1222 **R2** 217 R3 R4 TUBER WIDTH (mm) AVERAGE:





#### STANDARD DEVIATION:

| 17 | 3 | D 1 | 4 | Da | 3 | 1 | D2 | D4  |  |
|----|---|-----|---|----|---|---|----|-----|--|
| V  |   | I I |   | K2 |   |   | K3 | 174 |  |

#### AVERAGE WEIGHT OF SAMPLE TAKEN (g):

|   |     | 1 |     | · · · · · · · · · · · · · · · · · · · |     |              | 7 |    |   |      | 1 |
|---|-----|---|-----|---------------------------------------|-----|--------------|---|----|---|------|---|
| W | 226 |   | D 1 | 222                                   | D2  | )   217      | 1 | D2 | 1 | I DA | } |
| v | !   |   | 1/1 |                                       | 1\2 | ·  :         | 1 | KS | 1 | 1774 | 1 |
|   | I-, |   |     | L                                     | L   | <del>I</del> | J |    |   |      |   |

#### 7. TUBER CHARACTERISTICS: (continued)

#### TUBER THICKNESS (mm):

AVERAGE:

V 58

R1 56

R2 57

R3

R4

RANGE:

V 51 to 65

R1 48 to 65

R2 48 to 66

R3 to

R4 to

STANDARD DEVIATION:

V 3

R1 4

R2 4

R3

R4

AVERAGE WEIGHT OF SAMPLE TAKEN (g):

V 226

R1 222

R2 217

R3

R4

TUBER EYE DEPTH:

1 = Protruding

3 = Shallow

5 = Intermediate

7 = Deep

9 = Very deep

**V** 3

R1 4

R2 4

R3

R4

**TUBER LATERAL EYES:** 

1 = Protruding

3 = Shallow 5

5 = Intermediate 7 = Deep

ep 9

9 = Very deep

V 3

R1 4

R2 4

R3

R4

NUMBER EYE/TUBER:

AVERAGE:

V 11

R1 15

R2 15

R3

R4

RANGE:

V 6 to 16

R1 9 to 21

R2 <sup>9</sup> to <sup>21</sup>

R3 to

R4 to

**DISTRIBUTION OF TUBER EYES:** 

1 = Predominantly apical

2 = Evenly distributed

V

R1 2

R2 2

R3

R4

PROMINENCE OF TUBER EYEBROWS:

1= Absent

2 = Slight prominence

3 = Medium prominence

4 = Very prominent

5 = Other \_\_\_\_\_

V 2

R1 2

R2 2

R3

R4

9 = Purplish-red

R4

7. TUBER CHARACTERISTICS: (continued)

12

PREDOMINANT TUBER FLESH COLOR

2 = Light Yellow 1 = White 4 = Buff 3 = Yellow 5 = Tan 6 = Brown

10 = Purple 11 = Dark purple-black 12 = Other Light Cream

R1

PRIMARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color

R2

chart)

160D

R1 160D

12

R2 160D R3

8 = Red

7 = Pink

R3

R4

SECONDARY TUBER FLESH COLOR:

1 = Absent

2 = Present, please describe:

1

R1 1 R2 1 R3

12

R4

SECONDARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color

V

R1

R2

R3

R4

NUMBER OF TUBERS/PLANT:

2 = Medium (8-15) 1 = Low (< 8)

3 = High (>15)

R1

R2

R3

R4

#### 8. DISEASES CHARACTERISTICS:

DISEASES REACTION: 0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lessions in Number and Size 4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible 7 = Susceptible 9 = Highly Susceptible

#### LATE BLIGHT: (Phytophthora)

V ° R1 ° R2 ° R3 R4

#### **EARLY BLIGHT: (Alternaria)**

V • R1 • R2 • R3 R4

#### SOFT ROT (Erwinia)

 V
 R1
 R2
 R3
 R4

#### **COMMON SCAB (Streptomyces)**

 V
 R1
 R2
 R3
 R4

#### **POWDERY SCAB (Spongospora)**

 V
 R1
 R2
 R3
 R4

#### **DRY ROT (Fusarium)**

 V
 R1
 R2
 R3
 R4

#### POTATO LEAF ROLL VIRUS (PLRV)

 V
 R1
 R2
 R3
 R4

#### 8. DISEASES CHARACTERISTICS: (continued) **POTATO VIRUS X (PVX) R**1 **R2** R3 R4 POTATO VIRUS Y (PVY) R1 R<sub>2</sub> R3 R4 POTATO VIRUS M (PVM) R1 R<sub>2</sub> R3 R4 **POTATO VIRUS A (PVA) R2** R1 R3 R4 **GOLDEN NEMATODE (Globodera) R1** R2 R3 R4 ROOT - KNOT NEMATODE (Meloidogyne) R1 R<sub>2</sub> R3 R4 OTHER DISEASE $\mathbf{V}$ R1R2 R3 R4 PHYSIOLOGICAL DISORDER 1 = Malformed shape 2 = Tuber cracking 3 = Feathering 4 = Hollow heart 5 = Internal necrosis 6 = Blackheart 7 = Internal sprouting 8 = Other R1R2 R3 R4 9. PESTS CHARACTERISTICS: **PEST REACTION**: 0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lessions in Number and Size 4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible 7 = Susceptible 9 = Highly Susceptible COLORADO POTATO BEETLE (CPB) (Leptinotarsa) R1 R2 R3 R4 **GREEN PEACH APHID (Myzus)** R1 R2 R3 R4 OTHER: R<sub>1</sub> R2 R3 R4 OTHER: R<sub>1</sub> R<sub>2</sub> R3 R4

| 10. GE   | NE TRAITS:  |
|----------|---|
|          | INSERTION OF GENES: 1 = YES 2 = NO X  |
|          | IF YES, describe the gene(s) introduced or attach information:  |
|          |   |
| 11. QU   | ALITY CHARACTERISTICS:  |
|          | CHIEF MARKET:   |
|          | SPECIFIC GRAVITY (wt. air/wt. air – wt. water) 1 = <1.060   |
|          | V 4 R1 4 R2 3 P3 P4   |
|          | V 4 R1 4 R2 3 R3 R4   |
|          | TOTAL GLYCOALKALOID CONTENT (mg./100 g. fresh tuber)  |
|          | V R1 R2 R3 R4   |
|          | V K1 K2 K3 K4   |
| OTHER    | QUALITY CHARACTERISTICS: Describe any other quality characteristics that may aid in identification, (e.g., chip-processing, french fry processing,                        |
|          | soiling, after-cooking darkening). Please attach data and corresponding protocol.  se refer to Exhibit D for supplemental information regarding yield, grade, growth, and |
|          | essing characteristics of Silverton Russet.   |
|          | obbling diditable of bilveron Russet.   |
|          |   |
|          |   |
| 40.00    | NICAL IDENTIFICATION  |
|          | MICAL IDENTIFICATION:   |
| protocol | chemical traits of the candidate variety that aid in its identification (e.g., protien or DSN electrophoresis). Please attach data and the corresponding                  |
|          |   |
|          |   |
|          |   |
|          |   |
|          | 1940M   |
|          |   |
| 13. FIN  | ER PRINTING MARKERS:  |
| •        | ISOZYMES 1 = YES 2 = NO X   |
|          | IF YES, attach information  |
| 14. DNA  | PROFILE: 1 = YES 2 = NO X   |
|          | IF YES, attach information  |
|          |   |
| 15. ADE  | DITIONAL COMMENTS AND CHARACTERISTICS:  |
|          | ny additional descriptors that would be useful in distringuishing the candidate variety.  |
|          | r photos were previously submitted for Silverton Russet. Photographs of light sprouts   |
| of       | Silverton Russet and comparison cultivars Russet Burbank and Russet Norkotah are attached   |
| wit      | this updated Exhibit C.   |
|          |   |
|          |   |
|          |   |
|          |   |

#### Exhibit D

#### **Optional Supplemental Information**

Field trials were conducted on a Norte gravelly sandy loam soil at the San Luis Valley Research Center, Co in 1993-1995 and 2000. All trials were planted in a randomized complete block design with four replications. Each replication consisted of a single row 25 ft long. Between-row spacing was 34 in and in-row spacing, 12 in.

Data were analyzed by analysis of variance within a year. The LSD was used to test for differences among means when the F test for a variable was significant.

Following is a bulleted summary of the general statistical differences observed for **Silverton Russet** in the replicated yield trials.

- Lower total yield compared to Russet Burbank and greater total yield than Russet Norkotah.
- Greater yield of US #1 tubers than Russet Norkotah.
- Greater % of US #1 tubers than Russet Burbank and Russet Norkotah.
- Greater yield of >10 oz tubers than Russet Burbank and Russet Norkotah.
- Lower yield of <4 oz tubers than Russet Burbank.</li>
- Larger vine size than Russet Norkotah.
- Later maturing than Russet Norkotah.
- Lower specific gravity than Russet Burbank and greater than Russet Norkotah.
- Fry color similar to or better than Russet Burbank and better than Russet Norkotah.

# Exhibit D (continued)

# **Optional Supplemental Information**

Table 1. Yield and grade of **Silverton Russet** compared with Russet Burbank and Russet Norkotah, 1993-1995 and 2000.

|                         | · · · · · · |       | Yield (Cwt/A | N)         |       |
|-------------------------|-------------|-------|--------------|------------|-------|
|                         |             |       | US #1        |            |       |
| Cultivar                | Total       | Total | %            | >10 oz     | <4 oz |
| 1993                    |             |       |              |            |       |
| Silverton Russet        | 442         | 386   | 87.5         | 153        | 51    |
| Russet Burbank          | 491         | 408   | 83.2         | 123        | 68    |
| Russet Norkotah         | 349         | 321   | 91.4         | 132        | 27    |
| LSD (0.05) <sup>1</sup> | 65          | 73    | 6.3          | 67         | 20    |
| 1994                    |             |       |              |            |       |
| Silverton Russet        | 388         | 355   | 91.4         | 149        | 27    |
| Russet Burbank          | 456         | 333   | 73.0         | 75         | 101   |
| Russet Norkotah         | 185         | 150   | 81.0         | 66         | 34    |
| LSD (0.05) <sup>1</sup> | 54          | 58    | 6.5          | 46         | 20    |
| 1995                    |             |       |              |            |       |
| Silverton Russet        | 329         | 298   | 90.8         | 144        | 28    |
| Russet Burbank          | 399         | 295   | 73.8         | <b>7</b> 7 | 83    |
| Russet Norkotah         | 289         | 256   | 88.5         | 129        | 26    |
| LSD (0.05) <sup>1</sup> | 35          | 35    | 5.9          | 40         | 17    |
| 2000                    |             |       |              |            |       |
| Silverton Russet        | 419         | 368   | 87.7         | 102        | 49    |
| Russet Burbank          | 476         | 361   | 75.9         | 121        | 91    |
| Russet Norkotah         | 426         | 355   | 83.2         | 97         | 67    |
| LSD (0.05) <sup>1</sup> | 44          | 45    | 4.3          | 59         | 17    |

<sup>&</sup>lt;sup>1</sup>LSD=least significant difference.

# **Exhibit D (continued)**

# **Optional Supplemental Information**

Table 2. Plant and processing characteristics for **Silverton Russet** compared with Russet Burbank and Russet Norkotah, 1993-1995 and 2000.

| Clone                   | %<br>Stand | Vine<br>Size <sup>1</sup> | Vine<br>Maturity <sup>2</sup> | Specific<br>Gravity | Fry<br>Color <sup>3</sup> | Fry<br>Color⁴ |
|-------------------------|------------|---------------------------|-------------------------------|---------------------|---------------------------|---------------|
| 1993                    |            |                           |                               |                     |                           |               |
| Silverton Russet        | 96         | 3.0                       | 3.2                           | 1.079               | 2                         | 2             |
| Russet Burbank          | 99         | 3.8                       | 3.0                           | 1.084               | 2                         | 2             |
| Russet Norkotah         | 96         | 1.8                       | 1.5                           | 1.078               | 3                         | 3             |
| LSD (0.05) <sup>5</sup> | NS         | 0.5                       | 0.6                           |                     |                           |               |
| 1994                    |            |                           |                               |                     |                           |               |
| Silverton Russet        | 99         | 4.0                       | 3.0                           | 1.072               | 2                         | 2             |
| Russet Burbank          | 98         | 4.2                       | 2.8                           | 1.078               | 2                         | 2             |
| Russet Norkotah         | 93         | 1.2                       | 1.5                           | 1.071               | 2                         | 3             |
| LSD (0.05) <sup>5</sup> | 4          | 0.5                       | 0.5                           |                     |                           |               |
| 1995                    |            |                           |                               |                     |                           |               |
| Silverton Russet        | 99         | 3.0                       | 2.8                           | 1.076               | 1                         | 1             |
| Russet Burbank          | 97         | 4.0                       | 3.0                           | 1.086               | 2                         | 2             |
| Russet Norkotah         | 99         | 3.0                       | 2.8                           | 1.078               | 3                         | 2             |
| LSD (0.05) <sup>5</sup> | NS         | 0.5                       | 0.4                           |                     |                           |               |
| 2000                    |            |                           |                               |                     |                           |               |
| Silverton Russet        | 98         | 4.0                       | 2.8                           | 1.084               | 1                         | 2             |
| Russet Burbank          | 100        | 3.5                       | 3.0                           | 1.085               | 1                         | 2             |
| Russet Norkotah         | 98         | 3.0                       | 2.0                           | 1.080               | 1                         | 1             |
| LSD (0.05) <sup>5</sup> | NS         | 0.5                       | 0.4                           |                     |                           |               |

<sup>&</sup>lt;sup>1</sup>Vine size is rated on a 1 to 5 scale, with 5 indicating very large vines.

<sup>&</sup>lt;sup>2</sup>Vine maturity is rated on a 1 to 5 scale, with 5 indicating very late maturing vines.

<sup>&</sup>lt;sup>3</sup>Fry color was rated at harvest on a 0 to 4 scale (USDA color standards), with 0 being the lightest color. Color ratings of ≤2 are acceptable. Fries were cooked for 3 ½ minutes at 375F.

<sup>&</sup>lt;sup>4</sup>Fry color was rated after 8 weeks of storage at 45F.

<sup>&</sup>lt;sup>5</sup>LSD=least significant difference; NS=not significant.

# Appendix C.

COLORADO AGRICULTURAL EXPERIMENT STATION COLORADO STATE UNIVERSITY FORT COLLINS, COLORADO

and

IDAHO AGRICULTURAL EXPERIMENT STATION
UNIVERSITY OF IDAHO
MOSCOW, IDAHO

and

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICES WASHINGTON, D. C.

NOTICE OF THE NAMING AND OFFICIAL RELEASE OF **SILVERTON RUSSET**, A HIGH YIELDING, DUAL-PURPOSE CULTIVAR

The Colorado and Idaho Agricultural Experiment Stations and the Agricultural Research Service, United States Department of Agriculture announce the release of the potato cultivar **Silverton Russet**. **Silverton Russet** was primarily selected for fresh market use. **Silverton Russet** was named after the 1874 historic mining town, Silverton, Colorado, so named for the abundant supplies of silver mined in the area.

**Silverton Russet**, tested under pedigree number AC83064-6, was selected in 1985 at the San Luis Valley Research Center-Colorado State University, Center Colorado. It resulted from a cross of CalWhite (A76147-2) and A7875-5 made by the USDA-ARS at the University of Idaho Research and Extension Center, Aberdeen, Idaho in 1983 under the direction of J. J. Pavek. Pioneer and Targhee are in the parentage on the maternal side. Paternal ancestry includes Nooksack. **Silverton Russet** is a full-sib to Keystone Russet (AC83064-1).

Selection and early testing was done by D. G. Holm, San Luis Valley Research Center-Colorado State University, Center, Colorado. Colorado State University personnel conducting cultural management trials and disease evaluations/observations were A. L. Thompson and R. D. Davidson, respectively. Additional disease evaluations were performed by D. L. Corsini, USDA-ARS, as part of Western Regional Coordinating Committee No. 27 (WCC-27). Advanced testing, seed increase, and commercial evaluation was assisted by WCC No. 27 participants, several seed and commercial growers, and other private cooperators in the Western United States.

**Silverton Russet** was evaluated in the Western Regional Trials in 1993-1995. Seed was released in Colorado for controlled increase and commercial trials in 1993. In 2000, 503 acres of certified seed were planted in Colorado.

**Silverton Russet** emerges rapidly and produces an erect, medium-large sized vine with white flowers. Vine maturity is medium. Field trials have shown that **Silverton Russet** is sensitive to metribuzin. Results of disease tests and other observations indicate that **Silverton Russet** is susceptible to most common diseases.

**Silverton Russet** is very susceptible to PVY with potentially high levels of spread. Early season mosaic symptom expression of PVY may be latent. Tubers are moderately susceptible to soft rot, *Alternaria* dry rot, and susceptible to *Fusarium sambucinum* dry rot. Results of field tests and other observations indicate that leafroll expression is good with suitable color change and whole plant symptom expression.

Leafroll spread is moderate. Tubers are resistant to leafroll net necrosis and common scab. **Silverton Russet** is moderately susceptible to *Verticillium* wilt and susceptible to foliar early blight and late blight. Foliar and tuber ring rot expression is typical. Foliar expression occurs within 90 days in the San Luis Valley. Tuber symptoms are readily evident at harvest.

Tubers of **Silverton Russet** are oblong to long with a medium russet skin and white flesh. Tuber type is attractive. Eyes are shallow and distributed more heavily near the apical end. Tubers have a short dormancy with good storability and few internal problems. Adequate skin set at harvest is important to ensure good storage quality. Tubers are resistant to hollow heart, second growth, growth crack, blackspot bruise, and shatter bruise.

**Silverton Russet** has high yield potential (Table 1). US No. 1 yields are 16 and 10% greater than Russet Norkotah in Colorado and Idaho respectively. Compared with Russet Burbank in Idaho, US No. 1 yields of Silverton Russet were 11% greater. The medium maturity of **Silverton Russet** makes it better suited to a limited growing season than Russet Nugget.

Table 1. Performance of **Silverton Russet** compared with standard cultivars in trials in Colorado and Idaho.

| Location/<br>Cultivar | Location<br>Years |     | ⁄ield<br>US No. 1 | %<br>US No. 1 | Vine<br>Maturity <sup>1</sup> | Specific<br>Gravity |
|-----------------------|-------------------|-----|-------------------|---------------|-------------------------------|---------------------|
| Colorado              |                   |     |                   |               |                               |                     |
| Silverton Russet      | 10                | 396 | 339               | 86            | 3.1                           | 1.078               |
| Russet Norkotah       | 10                | 341 | 292               | 85            | 1.8                           | 1.075               |
| Russet Nugget         | 10                | 420 | 350               | 83            | 3.9                           | 1.095               |
| Idaho <sup>2</sup>    |                   |     |                   |               |                               |                     |
| Silverton Russet      | 3                 | 335 | 275               | 82            |                               | 1.077               |
| Russet Norkotah       | 3                 | 311 | 249               | 80            |                               | 1.075               |
| Silverton Russet      | 8                 | 391 | 336               | 86            | 3.3                           | 1.077               |
| Russet Burbank        | 8.                | 451 | 302               | 67            | 2.8                           | 1.082               |

<sup>&</sup>lt;sup>1</sup>Vine maturity: 1=very early; 5=very late.

Fry color of **Silverton Russet** is similar to Russet Nugget at harvest and after 45°F storage. While french fry color is suitable for processing, specific gravity may be marginal in some production conditions.

**Silverton Russet** has been grown on a commercial scale in Colorado, California, and Wisconsin with notable success. It appears to have wide adaptability in irrigated areas of the West and Midwest.

<sup>&</sup>lt;sup>2</sup>Comparison with Russet Norkotah and Russet Burbank is for early and late harvests respectively.

Plant Variety Protection will be applied for. Ownership of **Silverton Russet** has been assigned to the Colorado Certified Potato Growers' Association (CCPGA). This assignment is based on an agreement between CCPGA and the Colorado State Board of Agriculture acting by and through Colorado State University.

Seed is available from growers listed in the Colorado seed directory. Limited amounts for research purposes are available from D. G. Holm, San Luis Valley Research Center, Colorado State University, 0249 East Road 9 North, Center, CO 81125 (Telephone: 719-754-3594, ext. 14; Fax: 719-754-2619; E-mail: spudmkr@coop.ext.colostate.edu).

A cultivar specific management profile for **Silverton Russet** is available from A. L. Thompson at the address cited above (Telephone: 719-754-3594, ext. 13; Fax: 719-754-2619; E-mail: athompso@coop.ext.colostate.edu).

| Director, Colorado Agricultural Experiment Station | Date |
|--|------|
| Director, Idaho Agricultural Experiment Station    | Date |
|  |      |
| Administrator, USDA-Agricultural Research Service  | Date |

| U.S. DEPARTMENT OF AGRICULTURE<br>AGRICULTURAL MARKETING SERVICE   | The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. |  |  |  |  |
|--|---|--|--|--|--|
| EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP  | Application is required in order to de certificate is to be issued (7 U.S.C. 2 until certificate is issued (7 U.S.C. 2426                   | etermine if a plant variety protection<br>421). Information is held confidential |  |  |  |
| 1. NAME OF APPLICANT(S)  | TEMPORARY DESIGNATION     OR EXPERIMENTAL NUMBER  | 3. VARIETY NAME  |  |  |  |
| President Colorado Certified Potato Growers' Assn., Inc.   | AC83064-6   | Silverton Russet   |  |  |  |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  | 5. TELEPHONE (include area code)  | 6. FAX (include area code)   |  |  |  |
| 0249 East Road 9 North<br>Center, CO 81125   | (719) 754-3496<br>7. PVPO NUMBER  | (719) 754-2619   |  |  |  |
|  | 200100102   |  |  |  |  |
| 8. Does the applicant own all rights to the variety? Mark an "X" in appropriate the state of the | iate block. If no, please explain.  | X YES NO   |  |  |  |
| <ol> <li>Is the applicant (individual or company) a U.S. national or U.S. based or<br/>If no, give name of country</li> </ol>  | ompany?   | YES NO   |  |  |  |
| 10. Is the applicant the original owner?  YES  X NO If no, please answer one of the following:   |   |  |  |  |  |
| a. If original rights to variety were owned by individual(s), is (are) the or  | iginal owner(s) a U.S. national(s)?   |  |  |  |  |
| ☐ YES ☐ N  | O If no, give name of country   |  |  |  |  |
| b. If original rights to variety were owned by a company(ies), is(are) the   | original owner(s) a U.S. based company  | ?  |  |  |  |
| YES NO If no, give name of country   |   |  |  |  |  |
| 11. Additional explanation on ownership (if needed, use reverse for extra sp. The Colorado Certified Potato Growers' Ass Colorado State University, the Colorado Stagreement on February 1, 1998. This agree potato cultivars developed at Colorado Sta Station to the Colorado Certified Potato G   | ociation, Inc., and the gate Board of Agriculture ment allows the transfer te University by the Agr   | , entered into an of ownership of  |  |  |  |
| LEASE NOTE:  |   |  |  |  |  |
| lant variety protection can be afforded only to owners (not licensees) who meet on   | e of the following criteria:  |  |  |  |  |
| . If the rights to the variety are owned by the original breeder, that person must be which affords similar protection to nationals of the U.S. for the same genus and s   | a U.S. national national of a UPOV member   | r country, or national of a country  |  |  |  |
| . If the rights to the variety are owned by the company which employed the origin  |   | ed owned by nationals of a LIBOV   |  |  |  |

- member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to compete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

REPRODUCE LOCALLY, Include form number and date on all reproductions.

orm Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, maritel or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

# EXHIBIT F DECLARATION REGARDING DEPOSIT

| ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) | TEMPORARY OR EXPERIMENTAL DESIGNATION   |  |  |
|---|---|--|--|
| 0249 East Road 9 North  | AC83064-6   |  |  |
| Center, CO 81144  | VARIETY NAME  |  |  |
| Α   | Silverton Russet  |  |  |
| ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) | FOR OFFICIAL USE ONLY   |  |  |
| 0249 East Road 9 North<br>Center, CO 81144                                | #200100102  |  |  |
|   | 0249 East Road 9 North Center, CO 81144  ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 0249 East Road 9 North |  |  |

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Allon Rockey
Signature

4/11/07

Date

#### Exhibit F

Upon the request of the Commissioner of the Plant Variety Protection Office, the Colorado Certified Potato Growers' Association, Inc. agrees to deposit in a public repository in the United States a viable tissue culture sample for the variety **Silverton Russet** upon issuance of a certificate of protection. The Colorado Certified Potato Growers' Association, Inc. further agrees to replenish the sample if viability does not meet or falls below required standards.

President, Colorado Certified Potato Growers' Association, Inc.